L 17602-63	EVT(m)/EDS AFFTC/ASD S/056/63/044/003/015/053 5-5
AUTHOR:	Dolbilkin. B. S., Zinevalov. V. A., Korpin, V. I., and Nikolayev. F. A.
TITLE:	Shape of the bremsstrahlung spectrum near the high frequency limit Zhurnal eksperimental noy i tekhnicheskoy fiziki, v. 44, no 3, 1965, 866-867
curvas calc	e existed reasons for the belief that the bremsstrahlung cross section ulated by L. I. Schiff (Ref. 1: Phys. Rev., 83, 252, 1951) are not ulated by L. I. Schiff (Ref. 1: Phys. Rev., 83, 252, 1951)
correct nea of the Born bremsstrahl with a magn	approximation in this region. Consequently, the shape of a approximation in this region. Consequently, the shape of a approximation in this region. Consequently, the shape of a approximation in this region. Consequently, the shape of a approximation with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with a resolution ~ 150 kev near the high etic pair shear with a resolution ~ 150 kev near the high etic pair shear and the shape of a spectrum with a resolution ~ 150 kev near the high etic pair shear and the shape of a spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with an end point energy of 17.15 Mev was investigated ung spectrum with a resolution ~ 150 kev near the high energy of 17.15 Mev was investigated ung spectrum with a resolution ~ 150 kev near the high energy of 17.15 Mev was investigated ung spectrum with a resolution ~ 150 kev near the high energy of 17.15 Mev was investigated ung spectrum with a resolution ~ 150 kev near the high energy of 17.15 Mev was investigated ung spectrum with a resolution ~ 150 kev near the high energy of 17.15 Mev was investigated ung spectrum with a resolution ~ 150 kev near the high energy of 17.15 Mev was investigated ung spe
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Shape of th	bremsstrahlungspectrum Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SISR (Physics Institute im. P. N. Lebedev of the Academy of Sciences USSR
SUBMITTED:	October 17, 1962
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BOCDANKEVICH, O.V.; GORYACHEV, B.I.; ZAFEVALOV, V.A.

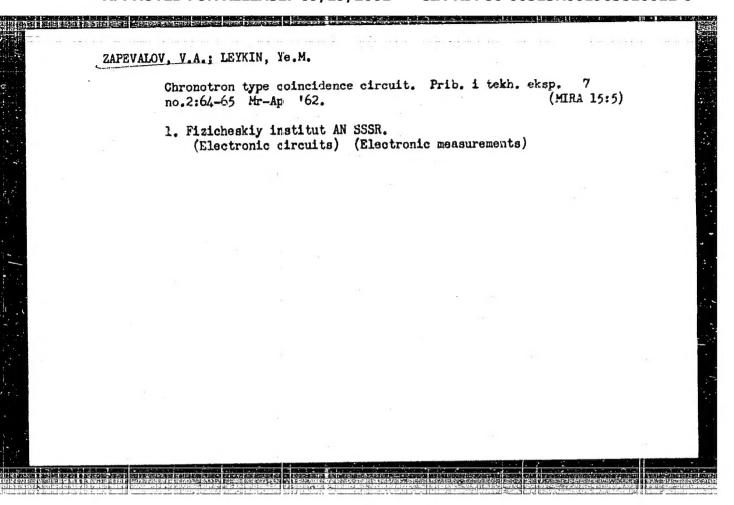
Splitting of giant resonance in certain medium-heavy muclei.
Zhur. eksp. i teor. fiz. 42 no.6:1502-1514 Je '62. (MIRA 15:9)

1. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR.
(Nuclear reactions)
(Neutrons)

DOLHILMIN, B.S.; ZAPEVALOV, V.A.; KORIN, V.I.; NIKOLAYEV, F.A.

Shape of the bremistrahlung spectrum near the upper limit. Zhur. eskp. 1 teor. fiz. 44 no.3:866-867 Mr '63. (MIRA 16:3)

1. Fizicheskiy institut imeni P.N.Lebedeva AN SSSR. (Bremsstrahlung) (Spectrometry) (Photonuclear reactions)



S/056/62/042/006/016/047 B104/B102

Bogdankevich, O. V., Goryachev, B. I., Zapevalov, V. A. AUTHORS:

The splitting of the giant resonance in medium nuclei TITLE:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42, PERIODICAL:

no. 6, 1962, 1502-1514

TEXT: The yield of photoneutrons from Rh 103, Ag 107, In 115, Tb 159, and Ta¹⁸¹ in the region of E_{γ}^{max} between the threshold energy of the (γ,p) reaction and 23 Mev was measured with the help of the 30-Mev synchrotron of the FIAN. The method of measurement adopted (Fig. 1) very largely eliminated instrument drift and simplified the experiment. The absorption cross sections of the quanta are computed from the measured yield (Fig. 10). A splitting of the giant resonance of Rh, In, Tb, and Ta nuclei was detected; it is explained as being due to the deviation of the nuclei from spherical symmetry. Indications of a possible nonaxiality of the Tb 159 nuclei were also found. There are 11 figures and 3 tables. Card 1/0 7

The splitting of the giant ...

s/056/62/042/006/016/047 B104/B102

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR

(Physics Institute imeni P. N. Lebedev of the Academy of

Sciences USSR)

SUBMITTED:

February 4, 1962

Fig. 1. Experimental arrangement.

Legend: (1) synchrotron, (2) target, (3) paraffin, (4) concrete, (5) monitor, (6) BF₃ counter, (7) sample, and (8) photomultiplier.

Fig. 10. γ -ray absorption cross section of Tb¹⁵⁹. Legend: (1) millibarn.

Card 2/4 >

ALEXSANDROV, Yu.M.; GRUSHIN, V.F.; ZAPEVALOV, V.A.; LEYKIE, Ye.M.

Photoproduction of T[†]-mesons on hydrogen. Doki. AN SSSR 160 no.4:
796-798 F '65.

1. Fizicheskiy ingtitut im. P.N. Lebedeva AN SSSR. Submitted July
27, 1964.

21403

5/120/61/000/062/014/042 E192/E382

9.7500

Card 1/4

AUTHOR: Zapevalov, V.A.

TITLE: A Reliable Circuit for the Triggering of Dekatrons

PERIODICAL: Pribory i tekhnika eksperimental, 1961, No. 2, pp. 86 - 87

TEXT: A correct operation of a dekatron counting stage can be obtained by means of a single triode (or by means of one-half of a double triode) provided its electrodes are kept at suitable potentials and the amplitudes and shapes of the pulses which transfer the discharge are chosen correctly. The situation is illustrated in Fig. 1 (Ref. 1), where the pulses U_{n2} appearing at the anode are plotted in normalised coordinates as a function of $\beta = RC/T$ and t/T, where T is the time constant corresponding to the pulse U_{n1} . The quantity ΔU plays an important part in this circuit during the transition of the discharge from the first to the second auxiliary cathode and the reliability of the dekatron operation is largely dependent on it. For the dekatrons,

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A Reliable Circuit ...

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type IOCT-16 (10SG-1B), this quantity AU should be about 20 V. As can be seen from the curves of Fig. la, this requirement is difficult to meet since an increase in AU' is related to the increase of β and this results in a great loss of the amplitude of the pulse U_{n2} and leads to the decrease in the reliability of the dekatron. However, if the circuit shown in Fig. 15 (Curve Un1) is used for shifting the discharge, it is easy to obtain \(\Delta U'' \) of the required magnitude. The curves of Fig. 1 give only a qualitative picture since they do not take into account the transient time of the pulse on the zero electrode or the possibility of overdriving the grids of the drive tubes. However, this method of equalising the drive pulses by means of R_1 and R_2 (Fig. 1) can be used successfully in driving dekatrons of the type 10SG-1B as well as type EG-5 (YeG-5), provided the currents of the dekatrons are kept within the prescribed values. The counter based on this drive can operate reliably

S/120/61/000/002/014/042
A Reliable Circuit ... E192/E382

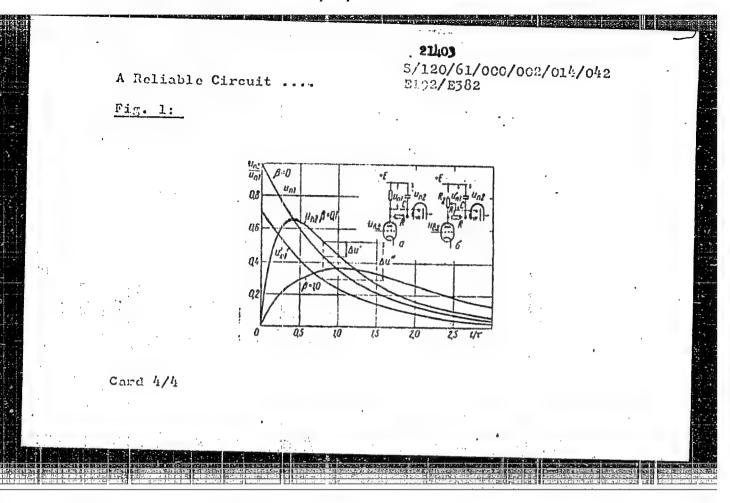
up to 5 kc/s if a rectangular input pulse having a duration of 60 µs and an amplitude of 80 V is applied to the drive tubes. There are 3 figures and 1 Soviet reference.

ASSOCIATION: Fizicheskiy institut AN SSSR

(Physics Institute of the AS USSR)

SUBMITTED: April 25, 1960

Card 3/4



L 1570-66 EWT (m)/EWA(h) ACCESSION HR: AP5019216 UR/0056/65/049/001/0054/0065 44.65 AUTHOR: Aleksandrov, Yu. M.; Grashin, V. F.; Zapevalov, V. A.; Leykin, Ye. M. TITLE: Photoproduction of positive pions from protons at photon energy 230 Mey and determination of the 7mp coupling constant SOURCE: Zhurnal eksperimental'nov i teoreticheskov fiziki, v. 49, no. 1, 1965, 54-65 TOPIC TAGS: pion, muon, particle production, angular distribution, meson interaction ABSTRACT: In view of the contradictory results of earlier measurements, the authors measured the differential cross section and the angular distribution for the photoproduction of nt-mesons from protons at photon energy 250 Mev for the c.m.s. angles 0, 38, 82, 90, 116, 138, 146, and 180°. The experiment was performed in the brems-strahlung beam of the 265-Mev synchrotron at FIAN (Physics Institute of the Academy of Sciences). The experimental set-up is illustrated in Fig. 1 of the Enclosure. The apparatus and data-processing procedure are described in detail. The #-mesons of given energy were detected by a method involving identification of the particles from their momentum and range in matter, using a magnetic spectrometer and a detector of pion stoppings, comprising a plastic-scintillation-counter telescope con-Card 1/3

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ACCESSION KR: AP5019216

21

taining a copper absorber of fixed thickness. The charged-particle trajectories were traced by the hot-wire method. Positive pions stopped in one of the counters were reliably identified from the π + μ decay, which occurred with a characteristic time τ_π = 2.55 × 10⁻⁸ acc. Momentum analysis of the particles was performed at 0 and 180°, and at the remaining angles only the stopping detector was used. The mean statistical accuracy was ± (3-4) ½. Comparison of the experimental data with a calculation based on dispersion relations (M. I. Adamovich et al., Trudy FIAN v. 34, 1965, in press) and the use of a suitably plotted likelihood function yielded for the γπρ constant a value (0.63 ± 0.11) ef (e = electron charge, f = interaction constant). The square of the interaction constant was found to equal 0.07 ± 0.11. A note added in proof, however, indicates that according to later data the foregoing numerical values are in error. "The authors thank P. A. Cherenkov for collaboration, A. I. Lebedev for a discussion of several problems touched upon in the paper, R. A. Latypova and M. S. Kuchumova for programming the computations, and A. H. Zinevich A. and K. I. Yablonin for help with the work. "Orig. art. has: 10 figures, 2 formulas, and 2 tables." ΨΨ.55.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSER (Physics Institute, Academy of Sciences, SSSR)

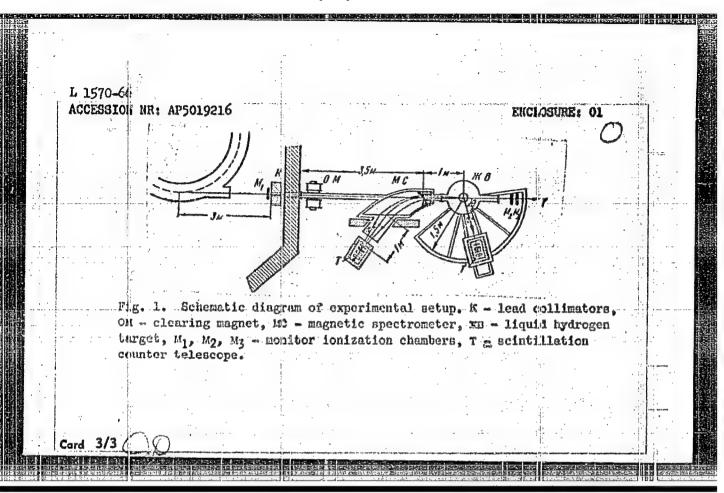
SUBMITTED: 29Jan65

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SUB CODE: NO

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OTHER: 017



DOLBILKIN, E. S.; ZAPEVALOV, V. A.; KORIN, V. I.; LAZAREVA, L. Ye.; NIKOLAYEV, F. A.

"Gamma absorption cross-section of Mg and Al nuclei in the giant resonance region."

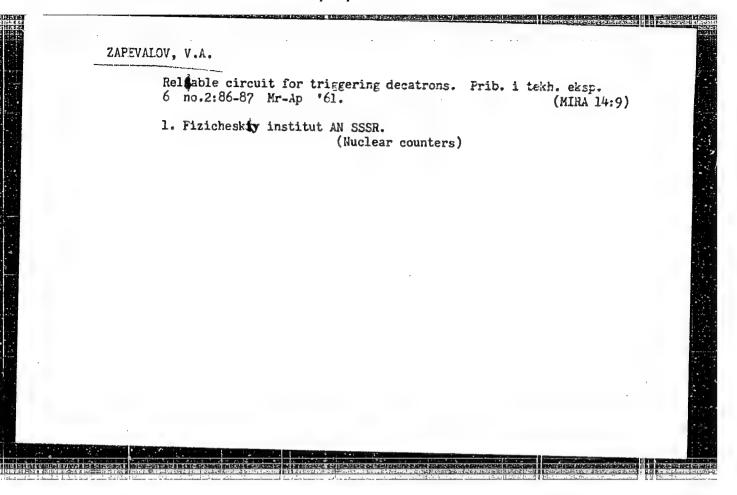
report submitted for Intl Conf on Low & Medium Energies Nuclear Physics, Paris, 2-8 Jul 64.

GRUSHIN, V.F.; ZAPEVALOV, V.A.; LETKIN, Ye.M.

Cherenkov's gamma spectrometer with total abscrption. Prib.i takh. (MIRA 13:7)

1. Fizicheskiy institut AN SSSR' (Spectometer)

(Gamma rays—Spectra)



24.6810

5/120/60/000/02/006/052 E032/E414

AUTHORS:

Grushin, V.F., Zapevalov, V.A. and Leykin, Ye.M.

TITLE:

A Total Absorption Cherenkov Gamma Spectrometer 19

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, Nr 2,

pp 27-32 (USSR)

ABSTRACT:

A description is given of a total absorption Cherenkov gamma spectrometer using a lead glass radiator to record gamma radiation up to 250 MeV. chosen to be in the form of a uniform cylindrical block The radiator was 28 cm in diameter and 22 cm long (11.8 t-units and 9.3 t-units respectively) and was made from TF-1 glass having an absorption coefficient of 0.2 to 0.3. The gamma spectrometer was in the form of a steel cylindrical frame with the radiator fixed to its front (Fig 2). The cylindrical surface of the radiator was covered by aluminium foil and one of the flat surfaces by a polished silver mirror. The light was collected by seven FEU-24 photomultipliers from the front surface of the radiator. The photomultipliers had a resolution of 10 to 12% measured on the Cs137 photopeak. The area covered by the photomultiplier cathodes was about 50% of

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S/120/60/000/02/006/052 E032/E414

A Total Absorption Cherenkov Gamma Spectrometer

the plane face of the radiator. On the front wall of the frame and in the mirror, an aperture was made capable of taking a standard sodium iodide crystal which was used to check the working of the spectrometer. The frame, the glass and the photomultipliers were placed in a steel tube which ensured that no extraneous light reached the device and also acted as a magnetic screen for the photomultipliers. In addition, provision was made for further magnetic screening of the photomultipliers by means of soft-iron or permalloy cylinders which surrounded each of the photomultipliers. Pulses from the photomultiplier anodes were fed into the cathode followers which could be used to regulate the magnitude of the signal and were followed by an adding circuit attached to the rear wall, In addition to the adding circuit, the apparatus included a gating circuit and a LO-channel kicksorter. The gating circuit was specially designed for use in the calibration of the gamma-spectrometer and ensured linear transmission of the signal from the gamma-spectrometer to the kicksorter when the gating

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S/120/60/000/02/006/052 E032/E414

A Total Absorption Cherenkov Gamma Spectrometer

The spectra were examined pulse was applied to it. with a simple 10-channel kicksorter having a mechanical counter at its output. The characteristics of the gamma-spectrometer were investigated on the 265 MeV synchrotron of the Physics Institute of the Academy of Sciences USSR. Fig 4 shows the results of a determination of the resolution of the gamma spectrometer using electrons having a 10% energy spread. Fig 5 shows the dependence of the amplitude of the output pulse on the electron energy. As can be seen, the instrument is linear in the energy range indicated. Fig 6 shows the energy dependence of the resolution of the gamma-Fig 8 shows the resolution of the various spectrometer. gamma spectrometers built in different laboratories. The curve marked 5 represents the present results. As can be seen, the present spectrometer has the best energy resolution but the dependence of the resolution on energy is somewhat different as compared with the other instruments. The work on the development of the present spectrometer was completed in 1957 (Ref 5).

Card 3/4

L 20704-66 EHT(m)/T ACC NR: AP6012026 SOURCE CODE: UR/0020/65/160/004/0796/0798 AUTHOR: Aleksandrov, Yu. M.; Grushin, V. F.; Zapevalov, V. A.; Leykin, Ye. M. ORG: Physics Institute im. P. N. Lebedev, AN SSSR (Fizicheskiy institut AN SSSR) TITLE: Fhotoproduction of Pi sup + -mesons on hydrogen SOURCE: AN SSSR. Doklady. v. 160, no. 4, 1965, 796-798 TOPIC TAGS: pi meson, synchrotron, scintillation counter, particle accelerator target, liquid hydrogen, angular distribution ABSTRACT: Theoretical consideration of the contribution made by the resonance π - π interaction (p-meson) to photoproduction amplitudes has made it possible by comparing experimental data with theory -- to obtain the constant, Arm p of such interaction. The present article deals with the measurement of the angular distribution of π -mesons from the reaction $\mathcal{S} + \mathcal{P} \to \pi^+ + \gamma_1$, given $\mathcal{E}_{\mathcal{F}} = 230$ MeV. A diagram of the experiment and a block diagram of the apparatus and given. The synchrotron of the Physics Institute imeni P. N. Lebedev of the USSR Academy of Sciences was used, with a liquid-hydrogen target and three scintillation counters. The number of delayed coincidences NA during several delays in a triple coincidence channel was measured for each of six angles. An analysis of the spress of individual values of N μ relative to the mean value N μ , obtained from several dozen measurements, revealed the presence of purely statistical fluctuations. The Card 1/2

counter N ₄ . The resulting liffer by A. I. LEBEDEN for different we estimate of the a likelihood fur on 27 July 1964, this work, and a	s scaled to the runne basic results are rential cross-section and S. P. KHARLAN alues of the constantity A 77 American was construction was construction to authors than also A. I. Lebedev	mber of stopped \mathcal{T}^+ -mesore presented in a table. ions with the results of the diant $\mathcal{T}\mathcal{T}\mathcal{P}$ makes it positive. (in units of \mathcal{C} and \mathcal{C} etcd. This paper was presult $\mathcal{T}\mathcal{P}$. A. Cherenkov for his and S. P. Kharlamov for pages: 2 figures and 1 tables.	A comparison of the the calculations made spersion relations sible to obtain an S.). For this purposented by V. I. Vekslassistance in compleresenting the necession	er eting
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ZAPEVALOVA N.P., SOKOLOVA, T.A., BAZHENOV, N.M., KOL'TSOV, A.I.

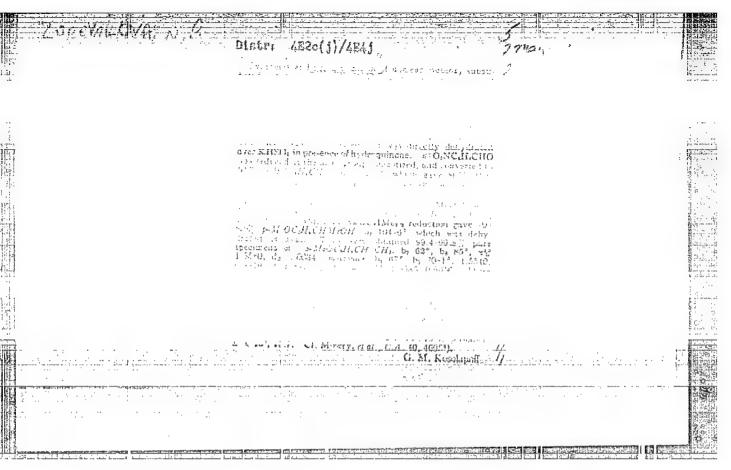
Method of preparing N-substituted \$\beta\$-lactams. Dokl. AN SSSR (MIRA 1616)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. Predstavleno akademikom A.Ye. Arbuzovym. (Lactams)

ZAPHVALOVA, N.P.; KOTON, M.M.

Synthesis and polymerization of methoxy-substituted (in the ring) styrenes. Fart.1: Synthesis and polymerization of nonnethoxystyrenes, Zhur. ob. khim. 27 no.8:2138-2142 Ag '57. (MIRA 10:9)

1. Institut vysokomolekulyarnykh soyadineniy Akademii nauk SSSR. (Styrene) (Anisole)



SOKOLOVA, T.A.; KOL'TSOV, A.I.. Zafevalova, N.P.; Ovsyahinikova, L.A.

Interaction of N.N.-dimethylhydrazine with derivatives of A.B.—unBaculaus audds. Izv.AN SSSR.Ser.khim. no.9:1727 S 164.

(MIRA 17:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

CIA-RDP86-00513R001963810012-0 "APPROVED FOR RELEASE: 09/19/2001

SOV/79-29-9-19/76 5(3) Zapovalova, N. P., Koton, M. M. AUTHORS:

Synthesis and Polymerization of Styrenes Methoxy-substituted in the Ring. III. Synthesis and Polymerization of Trimethoxy TITLE:

Styrenes

Zhurnal obshchey khimii, 1959, Vol. 29, Nr 9, pp 2900-2905(USSR) PERIODICAL:

Together with the systematic investigation of the influence ABSTRACE: exerted by the introduction of methoxy groups in the styrene

ring on polymerizability and proportion of the resulting polymers (Ref 1), an investigation of the hitherto undescribed trimethoxy styrenes was made by synthesizing 2,3,4- and 2,4,6. trimethoxy styrenes, with pyrogallol and phloroglucin being used as initial products. The syntheses of these trimethoxy styrenes took place according to the general scheme 1, by using pyrogallol as initial product. The hitherto unknown carbinols (IV), (VI), (V) were obtained and characterized ac-

cording to this scheme. The attempt of dehydrating compound (VI) resulted in the cleavage of acetaldehyde and the formation of compound (VII) (Scheme 2). The reduction of trimethoxy

acetophenone (III) according to Meerwein and Ponndorf (Ref 2) yielded carbincl (17) and its ether, thus preventing pure

trimethoxy styrene (V) from being formed. Compound (V) is poly-

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CIA-RDP86-00513R001963810012-0" APPROVED FOR RELEASE: 09/19/2001

SOV/79-29-9-19/76

Synthesis and Polymerization of Styrenes Methoxy-substituted in the Ring. III. Synthesis and Polymerisation of Trimethoxy Styrenes

merized on standing and heating, under formation of transparent colorless thermoplastic masses. To ascertain the influence exerted by the accumulation of methoxy groups in the styrene ring on polymerizability, the authors polymerized 2,3,4-trimethoxy styrene in the absence of an initiator and according to the dilatometric method in a special apparatus (Ref 1). For a comparison, the figure shows the polymerization data of monomend di-methoxy styrenes as well as those of the non-substituted styrenes. This polymerization made at 100 revealed that the easiness by which 2,3,4-trimethoxy styrene is polymerized, is due to the presence of a methoxy group in ortho-position to the vinyl group of the substituted styrene. There are 1 figure, 1 table, and 9 references, 2 of which are Soviet.

ASSOCIATION: Institut vysckomolekulyarnykh soyedineniy Akademii nauk SSSR

(Institute of High-molecular Compounds of the Academy of

Sciences, USSR)

SUBMITTED: April 9, 1958

Card 2/2

5.3700

77377 SOV/79-30-1-38/78

AUTHORS:

Koton, M. M., Kiseleva, T. M., Zapevalova, H. P.

TITLE:

Reactivity of Unsaturated Compounds of Tin and Lead

PERIODICAL:

Zhurnal obshchey khimii, Vol 30, Nr 1, pp 186-190 (USSR)

ABSTRACT:

The following compounds were synthesized: allyltriphenyllead (by the method of P. Austin /J. Am. Chem. Soc., 53 3514 (1931)/); allyltrimethyltin /Petrov, A. D., Mironov, V. F., Dolgiy, I. Ye., Izvest. Akad. nauk SSSR. Otdel. khim. nauk, 1956, 11467; vinyltrimethyltin /Seyferth, D., J. Am. Chem. Soc., 79, 515, 2133 (1957); J. Org. Chem., 22, 478 (1957)/; vinyltriphenyltin /fbid./; divinyldiphenyltin /fbid./; and tetravinyltin /fbid./; Experiments with thermal decomposition (which resulted)

Experiments with thermal decomposition (which resulted

in formation of akylmetal compound, followed by

precipitation of metal) were performed by heating 1 g of compound in a sealed ampule at 100-3000. It was

found that: (1) vinyl compounds of tin are more stable

toward heating than the allyl compounds, which in turn

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Reactivity of Unsaturated Compounds of Tin and Lead

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are more stable than the aliyl compounds of lead; and (2) thermal stability decreases with increasing number of vinyl groups in the molecule of organometallic compound. The stability of vinyl derivatives of tin decreases in the order vinyltrimethyltin (stable up to 250°) > vinyltriphenyltin > divinyldiphenyltin > tetravinyltin (which begins to decompose at 170°.) In respect to their reactivity the investigated radicals can be arranged: allyl > phenyl > vinyl. In reactions of allyltriphenyl lead with HC1 (performed in an ampule connected to a gas burette the evolved propylene was absorbed in bromine-CC14 solution and the resulting solution was titrated with Na_S_0_3), the allyl radical is eliminated first, forming propylene:

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Reactivity of Unsaturated Compounds of Tin and Lead

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 $(C_3H_5)Pb(C_6H_5)_3 + HCl \longrightarrow C_3H_6 + (C_6H_5)_3PbCl$

(it was shown earlier /Seyferth, D., J. Am. Chem. Soc., 79, 515, 2133 (1957); J. Org. Chem., 22, 478 (1957); Rosenberg, S., Gibbons, A., et al., J. Am. Chem. Soc., 79, 2137 (1957)/ that in reactions of vinyl derivatives of tin of the formula R2Sn (CH=CH₂)₂ with iodine, HCl and HBr, the radicals can be arranged according to the rate of their elimination in the order phenyl > vinyl > methyl > ethyl > propyl > butyl). Vinyl derivatives of tin do not polymerize under conditions of free radical polymerization --heating in presence of peroxides and azo-compounds (allyltriphenyllead decomposes at 120° in the presence of benzoyl-or tertlary-butyl peroxides with formation of free lead). All of the investigated lead and tin compounds inhibit free radical polymerization (at

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Reactivity of Unsaturated Compounds of Tin and Lead

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120° in benzene solution) of styrene and, especially, methyl methacrylate (see Figs. 1 and 2).

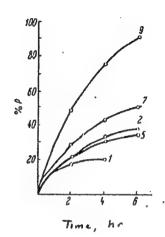
Fig. 1. Polymerization of methyl methacrylate at 120° in presence of 5 weight % of unsaturated compounds of tin: (1) tetraallyltin; (2) allyltrimethyltin; (3) diallyldiphenyltin; (4) allyltriphenyltin; (5) tetravinyltin; (6) vinyltrimethyltin; (7) vinyltriphenyltin; (8) pure methyl methacrylate.

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Reactivity of Unsaturated Compounds of Tin and Lead

77377 80V/79-30-1*-3*8/78

Fig. 2. Polymerization of styrene at 120° in presence of 5% by weight of unsaturated compounds of tin: (1) tetraallyltin; (2) allyltrimethyltin; (5) tetravinyltin; (7) vinyltriphenyltin; (9) pure styrene.



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Reactivity of Unsaturated Compounds of Tin and Lead

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By arranging the compounds shown in Figs. 1 and 2 in order of decreasing inhibiting action: tetraallyltin >> tetravinyltin >> allyltrimethyltin >> diallyldiphenyltin >> allytriphenyltin >> vinyltriphenyltin >> vinyltriphenyltin >> vinyltriphenyltin >> vinyltrimethyltin, it can be seen that the least stable compounds are the most active inhibitors. There are 2 figures; 2 tables; and 9 references, 2 Soviet, 1 German, 1 U.K., 5 U.S. The 5 most recent U.K. and U.S. references are: J. Brydson, Plastics, 1957, 384; H. Gilman, J. Eisch, J. Org. Ch., 20, 763 (1955), J. Am. Chem. Soc., 55, 4689 (1933); D. Seyferth, J. Am. Chem. Soc., 79, 515, 2133 (1957), J. Org. Ch., 22, 478 (1957); S. Rosenberg, A. Gibbons, H. Ramsder, J. Am. Chem. Soc., 79, 2137 (1957); G. Gilman, J. Am. Chem. Soc., 61, 735 (1939).

Card 6/7

Reactivity of Unsaturated Compounds of Tin and Lead

in the control of the

77377 SOV/79-30-1-38/78

ASSOCIATION: Institute of High-Molecular-Weight Compounds of the

Academy of Sciences, USSR (Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR)

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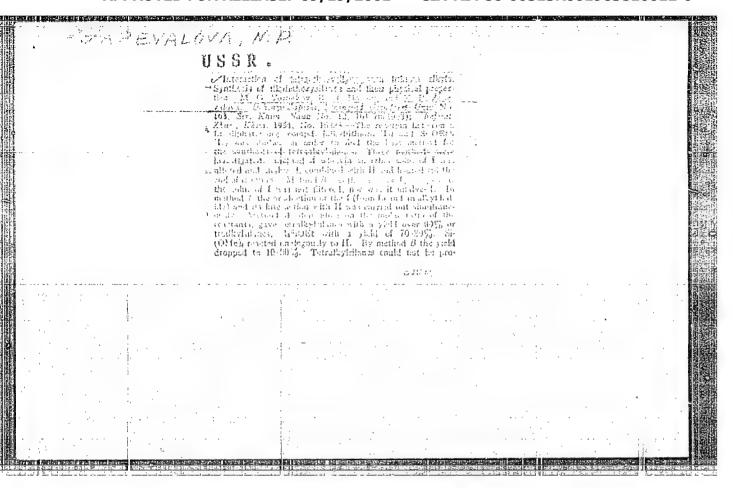
January 14, 1959

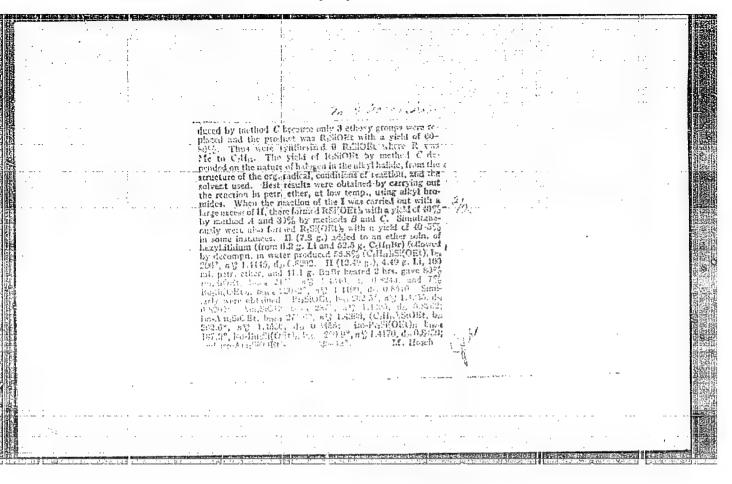
Card 7/7

ZAPEVALOVA, N.F.; SOKOLOVA, T.A.

Interaction of esymmetrically disubstituted hydracines with derivatives of d, f-unsaturated acids. Report No.1s Formation of 1,1-dimethyl-3-pyrazolinium oxides. Izv. AN SSSR. Ser. khim. no.8:1442-1447 '65. (MCRA 18:9)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.





ZAFEVIN, Leonid Vasil'yovich; KONOVALOV, A.S., red.; KHLOBORDOV,
V.I., tekhn. red.

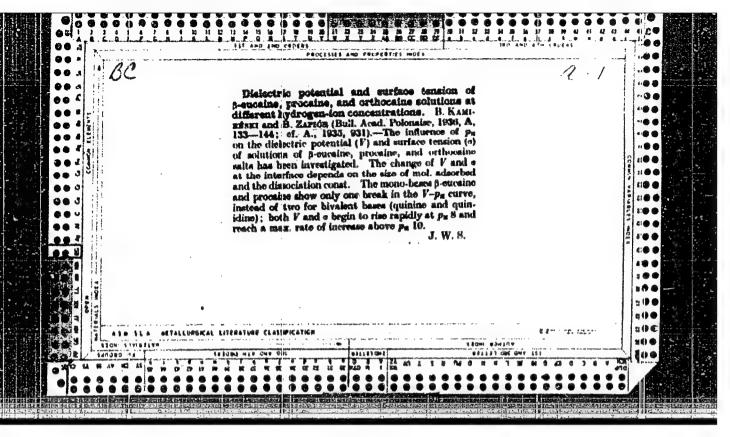
[Industries of the Kuban in the years of the seven-year plan]
Promyshlonnost' Kubani v gody somilotki. Krasmodar, Krasmodarskoe knizhnoe izd-vo, 1960. 69 p. (MIRA 15:7)

(Kuban-Industries)

COFOVA, M.; HLOUSKOVA, Z.; ZAPIETAL, A.

Normal respiremetric level in healthy children. Cesk. pediat. 18 no.10:915-921 0 163.

1. II detska klinika fakulty detskeho lekarstvi KU v Pruze, prednosta prof. dr. J. Houstek, DrSc. Detska klinika fakultni nemocnice pod Patrinem, prednosta prof. dr. K. Kubat. (SPIROMETRY) (RESPIRATORY FUNCTION TESTS)



ZAPIOR, Bronislaw; CZAPKIEWICZ, Jan

Electrocapillary properties of aqueous solutions of the polymer of aminophenylpropanes. Rocz chemii 36 no.12:1863-1871 '63.

1. Department of General Chemistry, Jagellonian University, Krakow.

ZAPICR, Bronislaw; GOLEBIOWSKA, Aleksandra

Studies on the discovery of **High-Charpurea** glycosides by paper chromatography; analysis of the percolates. Chem anal 7 no.4:855-858 '62.

1. Department of General Chemistry, Jagiellonian University, Krakow.

5/081/62/000/024/016/073 B117/B186

AUTHOR:

Zapiór, Bronisław

TITLE:

Adsorption potential and surface tension of aqueous solu-

tions of simple methyl ketones

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1962, 143, abstract

24B971 (Roczn. chem., v. 36, no. 2, 1962, 335-344 [Pol.;

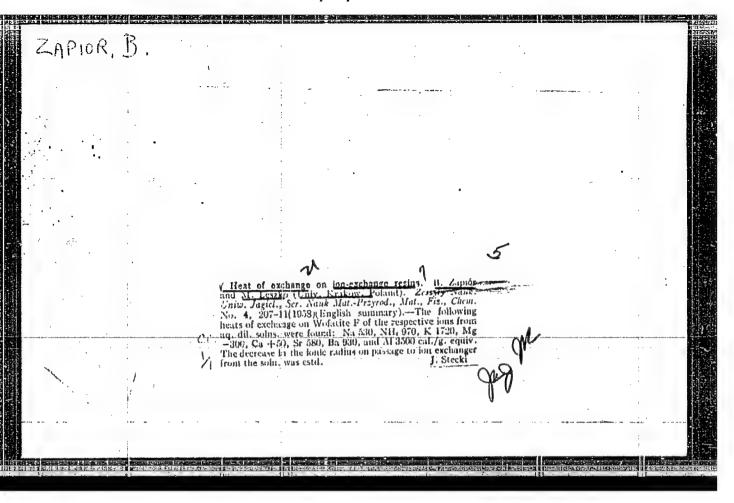
summaries in Russ. and Eng.])

TEXT: Dimethyl ketone, methyl-ethyl ketone, methyl-propyl ketone, methyl-butyl ketone, and methyl-amyl ketone were studied as to their surface properties. The equation of Sheshkovskiy was used to calculate the adsorption potential of ketones. Within a wide range of concentration, the data calculated were in good agreement with the experimental data obtained by the method of Kamenskiy. A marked parallelism was noted between the adsorption potential and the surface tension of aqueous solutions of ketones. [Abstracter's note: Complete translation.]

1. Department of General Chemistry, Jaguellonian University

Card 1/1

Crakon

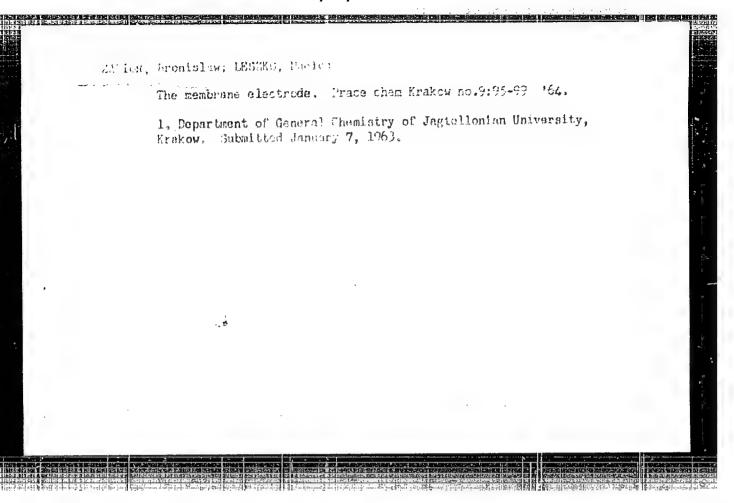


Country	; POLAMD
Gise for f	: Analytical Chemistry. Analysis of Organic
Abs. Jour	: Ref Zhur - Khim., No 5, 1959, No. 15143
Author Institut.	Zapior, B.; Sliwa, B.
Titic	: Use of a Potentiometric Method for the Detec- tion of Bands of Quinine and Codeine on Paper Chromatograms
Orig Pub.	: Roczn. chem., 1958, 32, No 2, 397-402
Abstract	: The possibility of the detection of quinine (Q) and codeine (C) on chromatograms by a potentiometric method was investigated. Q and C are chromatographed on Whatman No 1 paper at 18° for 3-3.5 hours, using as a developer a mixture of 180 ml. of water, 80 ml. of glycerin and 2 ml. of a 6% solution of NH3. The Rf of Q is 0.75-0.77, and that of C is 0.93-0.96. Chromatograms are dried at 100° for 30 minutes, moistened with 0.01 n. HCl and placed
Card:	1/3

ZAPIOR, Bronislaw, GOLSEICMSKA, Aleksandra

Effect of light on the course of chromatographic analysis of hydrastine-containing solutions. Prace chem Krakow no.9:37-93 164.

1. Department of General Chemistry of Jagiellonian University, Krakov. Submitted September 14, 1962.



MAPICE, Eronislaw; STWG ZEWICK, Tomasw Effect of the temperature, particle size, bed height, and flow

Effect of the temperature, particle size, bed height, and flow rate on the deicrization of glycerine water while using the ion exclusion method. Prace chem Krakow no.9:101-112 '64.

1. Department of General Chemistry of Jagiallonian University, Krakow. Submitted October 31, 1962.

	Application of the electrometric contact method in paper chromatography of some organic acids. Rocz chemii 33 no.4/5:1159-1165 *59. (EEAI 9:9) 1. Katedra Chemii Ogolnej Uniwersytetu Jagiellonskiego, Krakow. (Electrometer) (Tartaric acid) (Succinic acid) (Chromatography) (Antimony) (Electrodes) (Citric acid)	
* \$5.		

ZAPIOR, B.

Obtaining permutit. p. 381 (GAZ, WODA I TECHNIKA SANITARNA, Vol. 30, No. 10, Oct. 1956 Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9 Sept. 1957 Uncl.

ZAPIER, BRONISLA

POLAND / Physical Chemistry. Electrochemistry.

В

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56867.

Author : Zapior Broniglaw.

Inst : Not given.

: Electrocapillary Properties of Certain Naph-Title

thalene, Tetrahydronaphthalene and Anthraquin-

one Derivatives.

Orig Pub: Zesz. nauk. Uniw. Jagiell, 1957, No 14, 71 - 87.

Abstract: The surface tension 3 and potential jumps AV on the solution-air boundary for aqua solutions (contents 0.1 mole per liter KC1) of the following compounds were measured: \(\beta \) -naphthalene - sulfo acid (I), Na - salt of \(\alpha \) -naphthalene - sulfo acid (II), Na - salt of \(2 \)-naphthylamine - 1 - sulfo acid (III), \(2 \) -amino -8-naphthol -6 -sulfo acid (IV), \(Na \) -salt of anthraquinone -1 -sulfo acid, ac -tetrahydro - \(\beta \) -naphthaleneamine

Card 1/3

POLAND / Physical Chemistry. Electrochemistry.

B

Abs Jour: Ref Zhur-Khimiya, No 17, 1958. 56867

Abstract: (\triangle V,pH) indicates a parallelism between the absorption and electric effects in the VI and VII solutions. The dissociation constants for both bases were determined on the basis of data obtained with the aid of the Kamensky equation, as well as on the basis of a graphic analysis of the $\sqrt{24}$ V/100 (1-5), pH ratio.

Card 3/3

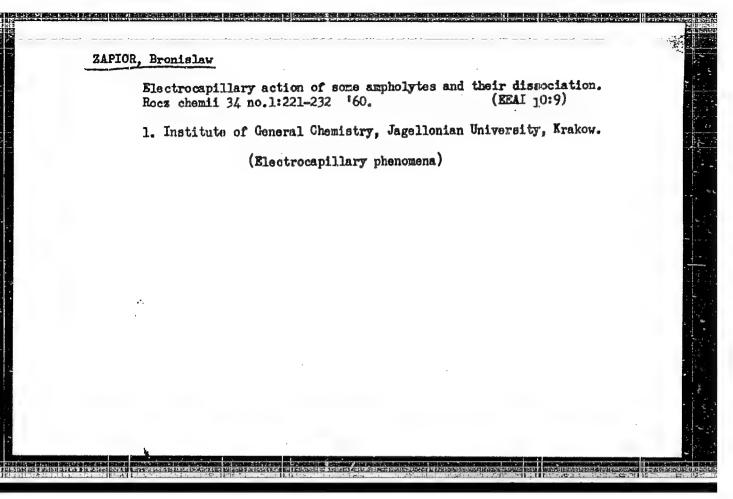


ZAPICR, B.; PLATEK, J.; KALETA, J.

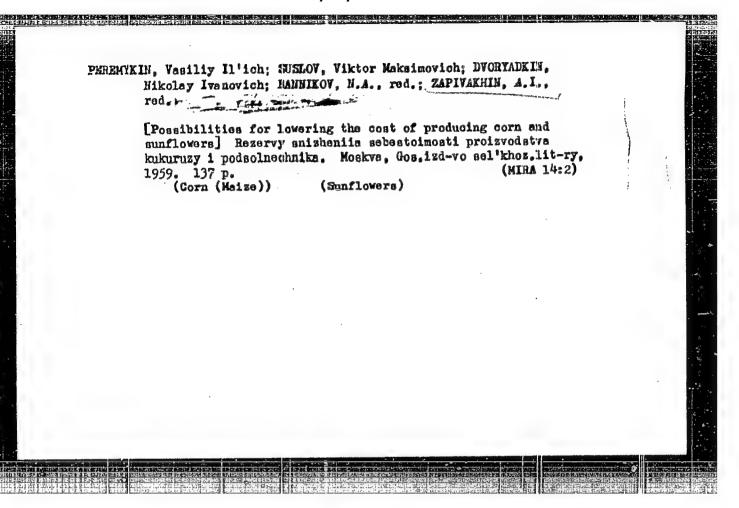
Polycyclic arematic hydrocarbons in the smoke of some home-produced cirarettes. p. 2h3.

ROCZNIKI CHEMII. (Polska Akademia Nauk) Warszawa, Poland, Vol. 33, no. 1, 1959.

Monthly List of East European Accessions (EEAI) IC, Vol. 8, no. 9, September 1959. Uncl.



سم	1, 29010-66 EWT(1) IJP(c) WW/GG	
	ACC NR. AP6018842 SOURCE CODE: UR/0051/66/020/001/0108/0116	
	AUTHOR: Valiyev, K. A.; Zapirov, H. M.	
-	B The same of the	
	ORG: none	
	TITLE: Theory of line width of electron paramagnetic resonance of Cussup 2+ ions	
	in aqueous solution	
	SOURCE: Optike i spektroskopiya, v. 20, no. 1, 1966, 108-116	
	TOPIC TAGS: electron paramagnetic resonance, copper, aqueous solution, line width	
	3/	
	ABSTRACT: Calculation is performed for the width of the EPR line for Cu2 ions in aqueous solution. It is shown that the main reason for broadening	
-	of the EPR line is a relazation movement of the electrons of an ion between	
	the two low orbital levels. The breadening of the EPR line upon orbital transition of the ion is caused by the difference in the g-factor of the	
. .	spin at these orbital levels. It is indicated under that conditions the	
	transitions, with change of one quantum number, lead to "broadening" of the level characterized by another quantum number. Orig. art. has: 28 formulas. ZPRS7	
	SUB CODE: 20/ SUBM DATE: 19Aug64/ ORIG REF: 007 / OTH REF: 009	
25		
	Cord 1/1 BLC UDC: 535.34:538.113.001	
	ましょうはは、軟にも大きがから出来るとものは、かだけには、物にはなかった。これには、これには、はずした。これには、これには、土地が	
E P		



MASHERKOV, Vladimir Pedorovich: ZAPIVAKHIN, A.I., red.; TRUKHINA, O.N., tekhn.red.

[Potentials for incressing labor productivity in Soviet agriculture] Rezervy rosta proizvoditel'hosti truda v sel'skom khozisistve SSSR. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960.

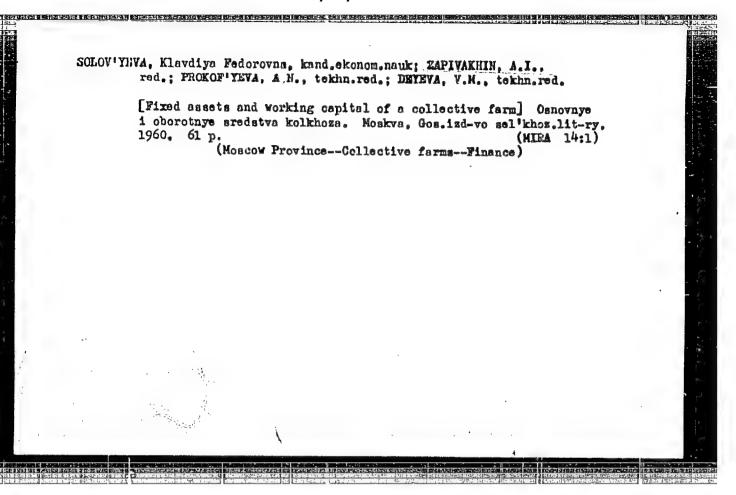
142 p. (Agriculture-Labor productivity)

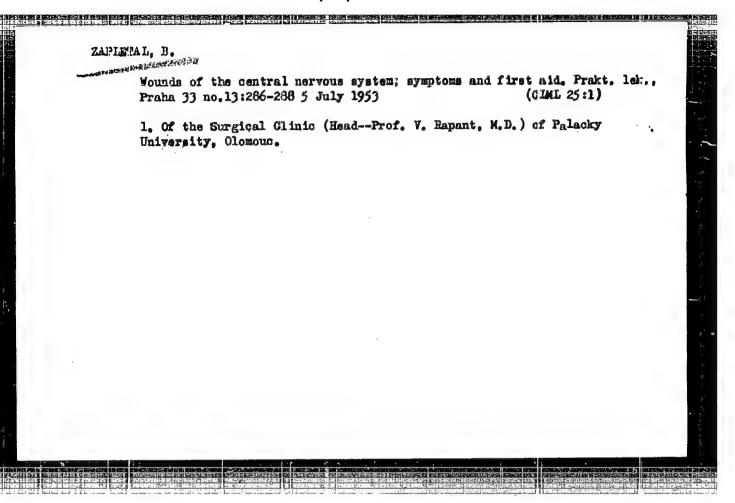
(Agriculture-Labor productivity)

RELOUSOV, Yu.A.; KORCHANOV, A.T.; RUDINSKIY, Ye.Ya.; STEPNOVA, Ye.V.;
BARNIKOV, N.A., red.; ZAPIVAKHIN, A.L., red.; LAPIDUS, M.A.,
rod.; RAKITIMA, Ye.D., red.; TERESHCHEMKO, W.I., red.; FREYDMAN,
S.M., red.; BALLOD, A.I., tekhn.red.

[Menual on rural subsidiary enterprises] Spravochnik po sel'skim
podsobnym predpriistiiam. Moskve, dos.izd-vo sel'khoz.lit-ry,
1960. 798 p.

(Marufactures) (Farm produce)





ZAPIETALEK, A.

Research in the mechanism of brittle steel failure. p. 287.

ZVARANIE. (Ministerstvo hutneho prumyslu a rudnych bani a Ministerstvo strojareustva)
Bratislava, Estonia.
vol. 8, no. 9, Sept. 1959

Monthly List of East European Accessions (EEAI) LC, vol. 8, no. 11 November 1959

Uncl.

CAPIVALOV, N.P.; ROZHCK, N.G.; SHPIR MAN, K.A.

Oil and gas fields in Torsk Province. Neftegaz. geol. i geofiz.
no.3:8-10 '64. (MIRA 17:5)

1. Novosibirskoye geologicheskoye upravleniye.

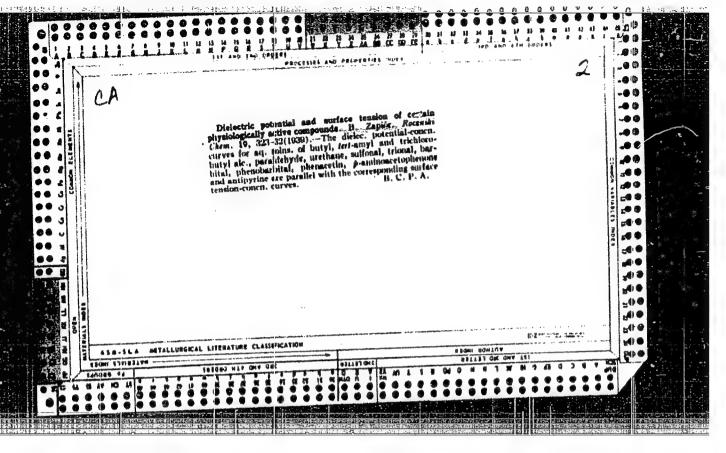
ZAPIVALOV, Nikolay Petrovich; SHPIL'MAN, Kal'man Abramovich;

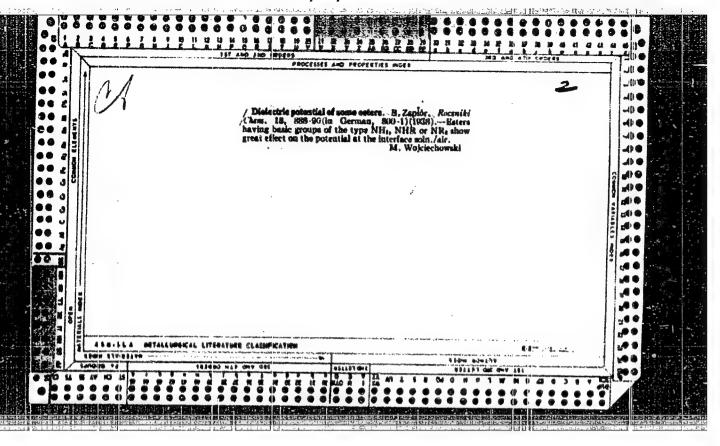
GORBATOVSKIY, I.V., red.

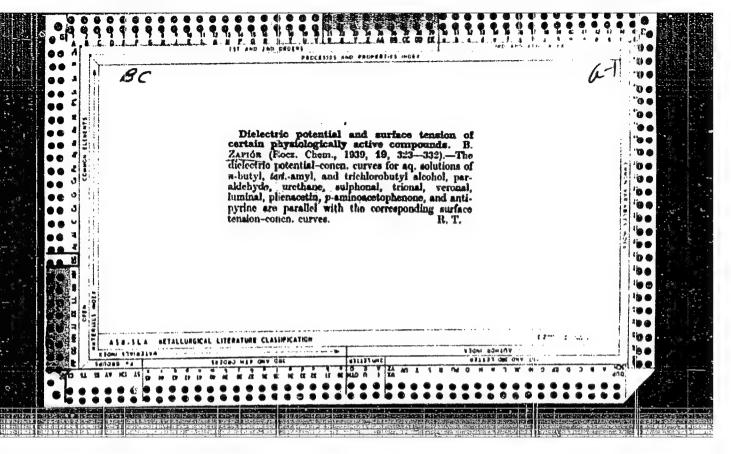
[There will be a "Siberian Baku"] Budet sibirskoe Baku.

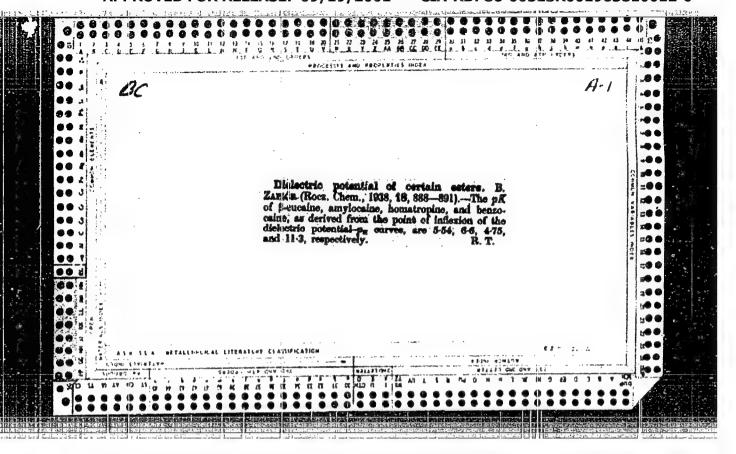
Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1963. 52 p.

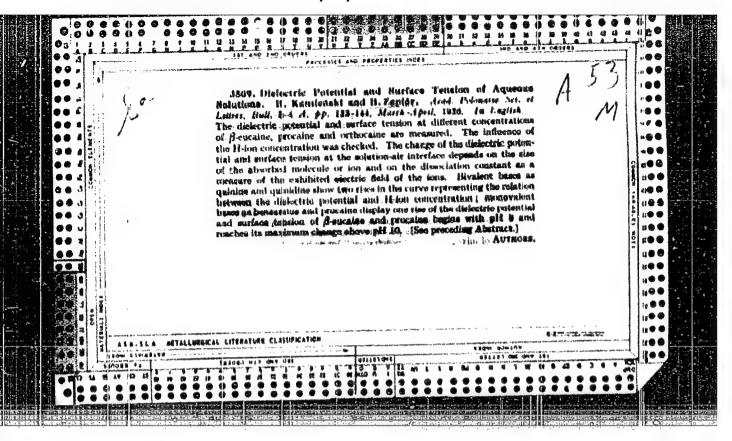
(MIRA 17:3)

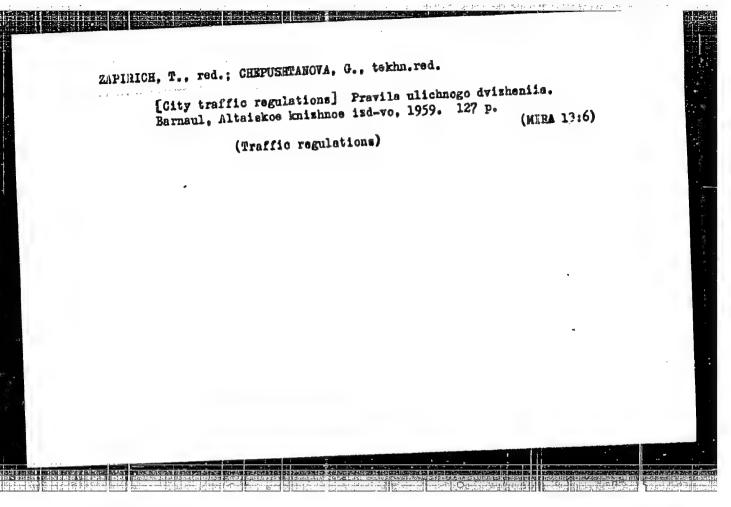












YAREMCHUK, Ivan Federovich,; ZAPIRICH, T., red.; GRIN', Ye., tekhn.red.

[Handbook for rural builders] Spravochnik sel'skogo streitelis.

[Izd. 2., impr. i dop. Barnaul, Altaiskoe knizhnoe izd-vo, 1958. 355 p.

(MIRA 11:12)

(Building)

20-119-3-7/65 Zapirov, R.Kh. (Rostov/Don) AUTHOR: Systems of Complete Singular Integral Equations of Convolution TITLE: Type (Sisteny polnykh osobykh integral'nykh uravneniy tipa svertki) Doklady Akademii Nauk, 1958, Vol 119, Nr 3, pp 429-432 (USSA) PERIODICAL: The author considers the system ABSTRACT: $1f = f(x) + \frac{1}{\sqrt{2\pi}} \left\{ a(x-t)f(t)dt + \frac{1}{\sqrt{2\pi}} \left\{ b(x-t)f(t)sgn \ t \ dt + Tf = g(x) \right\} \right\}$ where Γ is the real axis and the system $1^* \varphi = g(x)$, where 1 is the operator adjoint to 1. The theorems of Noether (lf = 0 has finitely many linearly independent solutions only etc) hold for the considered systems. The main result of the author consists in the proof that each solvable system of the considered type admits an equivalent regularizator, i.e. there exists an operator p so that plf = pg is a Fredholm equation equivalent to lf = g. The proof of the existence of p is carried out constructively, so that one obtains an explicit expression for p. There are 6 references, 5 of which are Soviet, Card 1/2

ACCESSION NR: AP4017398

\$/0185/64/009/002/0136/0206

AUTHOR: Zapisochry*y, I. P.; Mmkov, I. G.; Garga, I. I.; Vuksty*ch, V. S.

TITLE: Vacuum monochromator for the investigation of optical excitation functions

SOURCE: Ukrayins'ky*y fizy*chny*y zhurnal, v. 9, no. 2, 1964, 196-206

TOPIC TAGS: vacuum ultraviolet, vacuum ultraviolet spectroscopy, resonance level excitation cross-section, excitation cross-section, resonance radiation, ultraviolet monochromator, vacuum monochromator, electron beam excitation tube, mercury resonance lines

ABSTRACT: There are practically no data at present on the effective excitation cross sections of resonance levels of atoms, diatomic molecules and their ions of various multiplicity, owing to experimental difficulties in the vacuum ultraviolet region of the spectrum.

To obtain such data the authors have constructed a spectrophotometric set-up, consisting of three basic units: a vacuum monochromator of normal incidence with a one-metre (600 lines/mm) standard concave diffraction grating;

Card 1/8 3

ACCESSION NR: AP4017398

highly monoenergeric electron beam excitation tubes; an electrophotometer using a secondary electronic multiplier (SEM) in a pulse counting regime for recording radiation in the vacuum ultraviolet region.

The monochromator was designed so that the refraction grating and rigidly attached input and output slits are always on the Rowland circumference. Transmission of movement in the vacuum is accomplished through bollows, while the kinematic system ensures linearity of the graduated graph throughout the working region (800-3500 A).

The luminous vertical gas column in the excitation tube may be precisely set on the input slit under control of a distance gauge consisting of two telescopes, for which the possibility of moving part of the monochromator housing from the input slit is provided. This permits the maximum utilization of the light power of the monochromator (the loss in resolving power is negligible, since the intervals between the spectral lines are considerable for most objects).

The open type SEM, together with the voltage divider and the cathode repeater are located directly behind the output slit of the monochromator in a special shell. The pulse count is taken with the aid of a standard // Tulip >>> velocity meter.

Card 2/4

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ACCESSION NR: AP4017398

The block diagram and the external appearance of the spectrophotometric

set-up are shown in the appended drawings.

In conclusion, tentative data are given on the excitation functions of mercury lines $\lambda=1850$ Å (Hg I) and $\lambda=1942$ Å (Hg II).

mercury lines $\lambda=1850$ Å (Hg I) and $\lambda=1942$ Å (Hg II).

Orig. Art, has 10 figures including several schematics and block diamgrams

ASSOCIATION: Uzhgorods'ky*y Derzhuniversy*tet (Uzhgorod State University)

SURMITTED: 11Jul63

DATE ACQ: 19Mar64

ENCL: 01

SUB CODE: PH. SD

NO REF SOV: 009

OTHER: 002

Card 3/4

311133 s/185/61/006/006/011/030 D299/D304

24.3500 (1137,1138)

Zapisochnyy, I.P., Kyshko, S.M., Shevera, V.S.,

Felitsan, P.V., and Shimon, L.L. AUTHORS:

Spectroscopic investigation of excitation functions TITLE:

of atoms and molecules

Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 6, 1961, PERIODICAL:

The experimental apparatus included a spectral device for separating the lines and bands, an electrophotometer with a photomultiplier, and tubes filled with gas and vapor. The experimental apparatus was described in detail in the references. It is noted that recording devices of high sensitivity were required; this was achieved by using a photomultiplier with a d.c. amplifier instead of a photographic plate, Another requirement which had to be met was homogeneity of the electron beam. In the references it was found that among secondary processes which cannot be neglected, cascade transitions have a considerable effect on the spectral lines of atoms. This fact was confirmed by the present investigation, Card 1/3

X

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Spectroscopic investigation of ...

conducted by the method of electron collisions. The excitation functions of cadmium-, natrium- and neon atoms were studied in detail, as well as those of diatomic nitrogen molecules and of nitric oxide and carbon monoxide. The measurements were conducted in the visible region of the spectrum, and for cadmium in the ultraviolet, A figure shows the following excitation functions of atoms: Na $(\lambda = 5890, 5896 \text{ Å})$, Ne $(\lambda = 5852 \text{ Å})$ and Cd $(\lambda = 5086 \text{ Å})$. The investigated excitation function are characterized by the presence of several maxima. vestigated excitation function are characterized by the presence of several maxima, i.e. by fine structure (mainly due to the cascade transitions). The following excitation functions of diatomic molecules were investigated: of the second positive system of N2 molecules and of the Angstrom system of CO molecules, of the negament of the comet system CO+, and of a NO+ system. A tive system N2+, of the comet system CO+, and of a NO+ system. A figure shows the excitation functions of the band of the second positive N2 system, of the CO+ system and of the NO+ system, for electron energies between 10 and 150 ev. Whereas the excitation functions of bands of neutral molecules are of ordinary shape, those of molecular ions are of a complex structure, i.e. have several maxima. The most likely reason for the complex structure are Card 2/3

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963810012-0

Spectroscopic investigation of ...

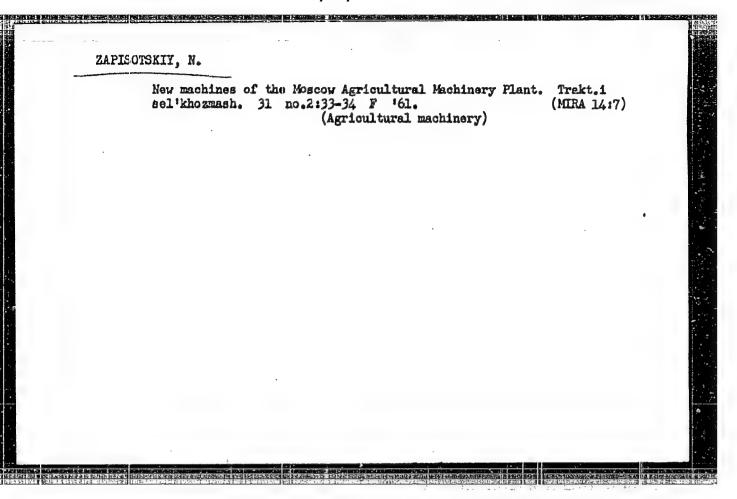
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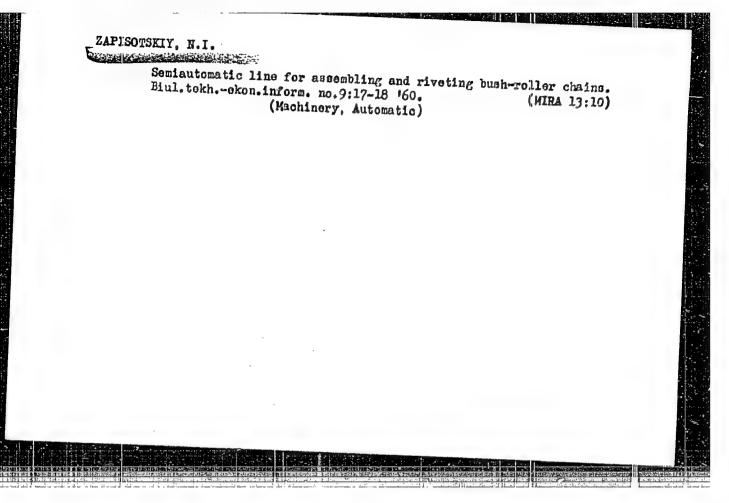
elementary processes of dissociation and ionization of molecules, followed by recombination; the latter leads to a jumplike increase in the concentration of the ionic state. Such an interpretation of fine structure is supported by additional facts. Another figure, showing the excitation function of the N₂⁺ band, illustrates the contribution due to the elementary processes, for various electron energies. There are 3 figures, 1 table and 8 references: 7 Sovietbloc and 1 non-Soviet-bloc (in translation).

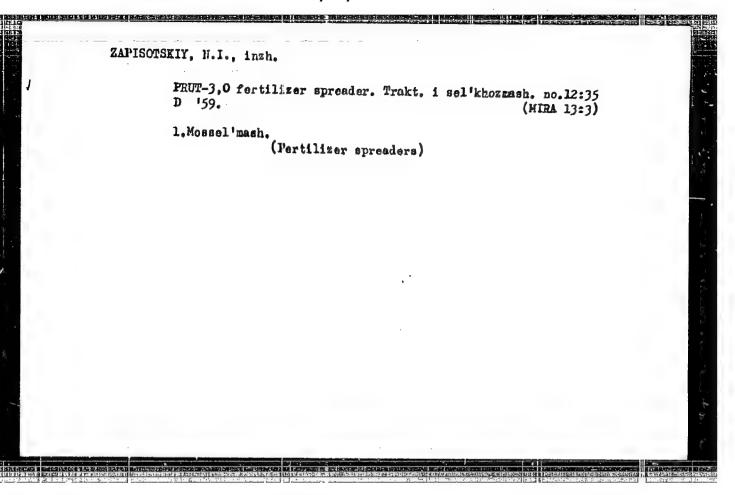
ASSOCIATION: Uzhhorods'kyy derzhuniversytet (Uzhhorod State Uni-versity)

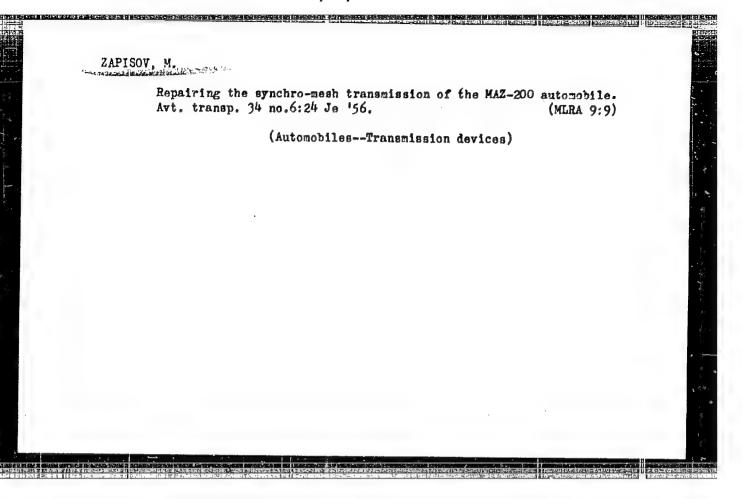
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Card 3/3

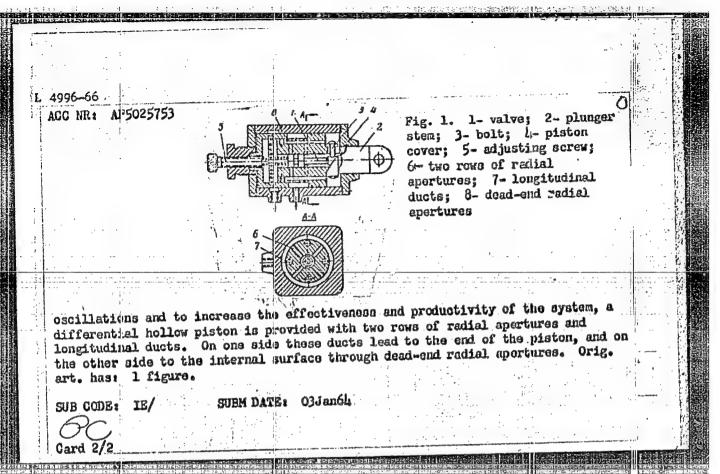








ORG: none TITLE: A hydropneumatic cylinder of asymmetric action. Class 47, No. 174921 SOURCE: Byulleten' izobreteniy i tovarnykh znekov, no. 18, 1965, 117 TOPIC TAGS: hydraulic device, pneumatic device, valve d ABSTRACT: This Author Certificate presents a hydropneumatic cylinder of asymmetric action. The cylinder contains a piston with an internal valve, an adjusting ring, and a spring. The cylinder consists of a working pressure chamber and an overflow introducing an auxiliary unit for moving the valve and to simplify the construction, the valve is made cylindrical, operates with two plungers, and is connected to the stem of the piston by a ring with a bolt. The bolt enters the slot of the piston and is spring-connected to an adjusting screw placed in the cover of the piston. To obtain a broader adjustment of the amplitude and frequency of piston Card 1/2 UDC: 621-229,364.325	L 4996_66 ENT(d)/EMP(v)/EWI ACC NR: AP5025753 AUTHORS: Zapisov, M. A.;	SOURCE CODE: UR,	EC /0286/65/000/018/0017/0017	
TOPIC TAGS: hydraulic device, pneumatic device, valve d ABSTRACT: This Author Certificate presents a hydropneumatic cylinder of asymmetric action. The cylinder contains a piston with an internal valve, an adjusting ring, and a spring. The cylinder consists of a working pressure chamber and an everflow introducing an auxiliary unit for moving the valve and to simplify the construction, the valve is made cylindrical, operates with two plungers, and is connected to the stem of the piston by a ring with a bolt. The bolt enters the slot of the piston and is spring-connected to an adjusting screw placed in the cover of the piston. To obtain a broader adjustment of the amplitude and frequency of piston.	ORG: none			
UDC 1 621-229.384.325	TOPIC TAGS: hydraulic devi- ABSTRACT: This Author Cert: action. The cylinder conta: and a spring. The cylinder chamber (see Fig. 1). To see introducing an auxiliary unition, the valve is made cylinder to the stem of the piston by piston and is spring-connect piston. To obtain a breader	eniy i tovarnykh znakov, no. 1 ce, pneumatic device, valve d ificate presents a hydropneuma ins a piston with an internal consists of a working pressur- scure automatic control of the it for moving the valve and to indrical, operates with two play a ring with a bolt. The bold	tic cylinder of asymmetric valve, an adjusting ring, se chamber and an overflow piston movement without simplify the construction ungers, and is connected tenters the slot of the sed in the cover of the and frequency of piston	
			UDC: 621-229.384.325	



SAKHARIYEV, Sembay; ZAPIVAKHIN, A., red.; BELOVA, N., tekhn. red.

[Economic efficiency of supplying water to pastures] Ekonomicheskala effektivnost' obvodneniia pastbishch. Moskva, Sel'khozizdat, 1963. 118 p. (MIRA 16:5)

(Pastures and meadows—Irrigation)

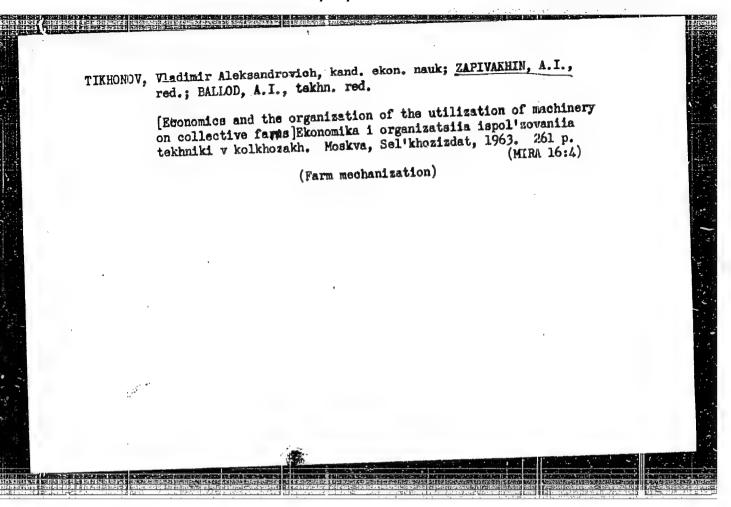
(Water supply, Rhral)

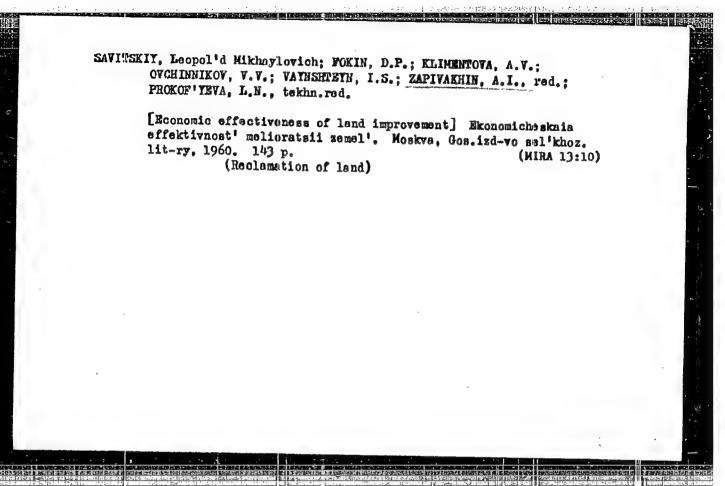
KOLESNEV, S.G., akademik, red.; ZAPIVAKHIN, A.I., red.; LAPIDUS,
M.A., red.; RAKITINA, Ye.D., red.; TIKHOMOVA, Ye.M., red.;
DEYEVA, V.M., tekhn. red.

[Specialization and size of agricultural enterprises] Spetializataila i razmery sel'skokhozialatvennykh predpriatii.
Pod red. S.G.Kolesneva. Moskva, Sel'khoziadat, 1963, 382 p.
(HIRA 16:7)

1. Vaesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.
V.I.Lenina (for Kolesnev).

(Farm management)





ZMIYENKO, Petr Yakovlevich; SPASIBIN, Ivan Ignat'yevich; ZAPIVAKHIN, A.I., red.; TRUKHINA, O.N., tekhn. red.

[Agriculture of the German Democratic Republic] Sel'skee khozisistvo Germanskoi Demokraticheskoi Rospubliki. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1961. 165 p. (MIRA 14:7)

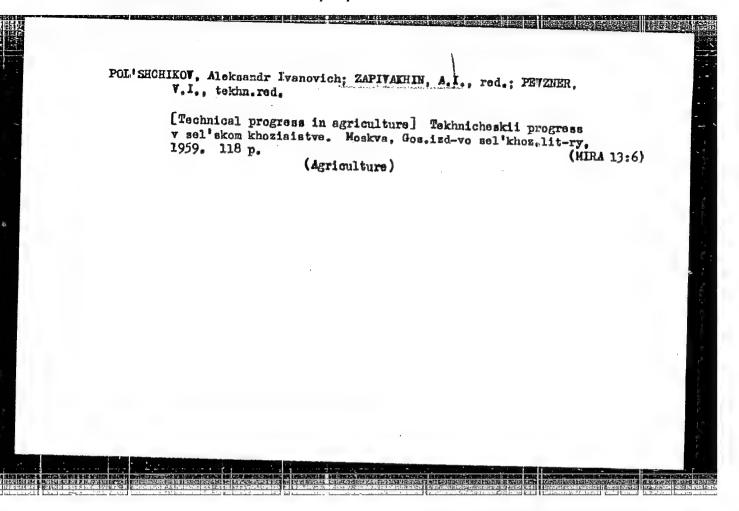
(Germany, East—Agriculture)

KOTOV, P.F., kand.sel'skokhoz.nauk, glavnyy red.; ALEKSANIROV, N.P., kand.sel'skokhoz.nauk, red.; KARPENKO, V.P., red.; KVASNIKOV, V.V., prof., doktor sel'skokhoz.nauk, red.; KOROL'KOV, V.I., prof., red.; POD(ORNYY, P.I., prof., red.; SKACHKOV, I.A., kand.sel'skokhoz.nauk, red.; ZAPIVAKHIN, A.I., red.; KALASHNIKOVA, V.S., red.; GUREVICH, M.M., tekhn.red.

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